Rubric for FY2015 K-8 Intel Math Title II, Part B Mathematics and Science Partnership Competitive Grant

Incentive points: Although not a federally mandated requirement for the grant, Arizona may award incentive points to proposals submitted by applicants who have not been previously funded by the MSP Program or from specific geographic areas in need of quality professional development in the area of mathematics grades K-8.

*Up to 8 points can be added at the discretion of the review team based on the quality of the proposal.

1. Partnership Comprehensive Needs Assessment:

The comprehensive needs assessments should indicate a clear statement of needs derived from multiple sources and multiple years if available.

Criteria	Exceeds Standard	Meets Standard	Below Standard
1a. Identification of Teacher and Student	5 points There is clear evidence of baseline data from	4 points There is clear evidence of baseline data from	0 points Limited baseline data is given. Needs
needs	at least 3 sources (i.e., norm-referenced assessments, AIMS data, district benchmark assessments, college transcripts) to support the selected mathematics professional development needs of the school population. Both teacher and student data are provided. Number and percentage of students to be impacted per site is indicated. Specific student learning needs are provided. Data is disaggregated by grade level and/or course, and school.	2 teacher and/or student sources (i.e., norm-referenced assessments, AIMS pre assessment data, district benchmark assessments, college transcripts) to support the selected mathematics professional development needs of the school population. Teacher or student data are provided. Number and percentage of students to be impacted per site is indicated. Specific student learning needs are provided. Data is disaggregated by grade level and/or course, and school.	identified are not adequately supported by evidence. Data is not appropriately disaggregated.
1b. Identification of professional development needs	4 points Provides information on the number and percentage of K-8 teachers who have sufficient and insufficient content knowledge in mathematics disaggregated by school. The needs assessment also includes a correlation between teachers' content knowledge in mathematics and student achievement.	3 points Provides information on the number and percentage of K-8 teachers who have sufficient and insufficient content knowledge in mathematics disaggregated by school.	O points Vague or limited information is given about the number of K-8 teachers with sufficient and insufficient content knowledge in mathematics. Data is not appropriately disaggregated.

Criteria	Exceeds Standard	Meets Standard	Below Standard
1c. Prioritization of	3 points	2 points	0 points
professional	There is clear evidence included that	Some evidence is provided to show that the	Limited or no evidence is given to indicate
development needs	partners have collectively determined	targeted professional development needs	why the partnership selected the targeted
	which professional development needs are	were selected with input from project	professional development needs. The
	of the highest priority and will be addressed	partners. The needs assessment	targeted professional development needs do
	by the project. The needs assessment	demonstrates a clear alignment between	not align with the content of the Intel Math
	demonstrates a clear alignment between	needs and the program content of the Intel	program.
	needs and the program content of the Intel	Math program.	
	Math program.		

2. Partnership Project SMART Goals and Objectives:
The project SMART goals and objectives should be closely linked to the professional development needs of the teachers.

Criteria	Exceeds Standard	Meets Standard	Below Standard
2a. Description of the project's SMART goals and objectives	5 points Goals are clear and objectives are specific, measurable, attainable, results-oriented, time bound (SMART). Objectives include reducing number of teachers not adequately prepared to teach mathematics and increasing academic achievement of students taught by teachers in the program.	4 points Goals and objectives are well defined and measurable. Objectives include reducing number of teachers not adequately prepared to teach mathematics and increasing academic achievement of students taught by teachers in the program.	O points Goals or objectives are poorly designed and/or not measurable.
2b. Project is designed to achieve SMART goals and objectives	5 points Goals and objectives are specifically linked to the individual professional development needs of the teachers.	4 points Goals and objectives are linked to the professional development needs of the teachers.	O points Goals or objectives are poorly correlated with the needs assessment.
2c. Theory of action plan or logic model is linked to SMART goals and objectives of project	3 points Describes a detailed theory of action plan or logic model that clearly links to the goals and objectives of the project.	2 points Describes a theory of action plan or logic model that links to the goals and objectives of the project.	O points Little or no connection is made between the theory of action plan or logic model to the goals and objectives of the project.

3. Research/Evidence Base and Efficacy of Plan to Increase Student Achievement:

The plan for professional development should be guided by research and the InTASC Teaching Standards and the Learning Forward Standards. The carefully designed activities should link to the SMART goals and objectives of the plan with emphasis on content knowledge and pedagogical content knowledge.

Criteria	Exceeds Standard	Meets Standard	Below Standard
3a. Connecting prior professional development efforts to proposed project	3 points Provides a detailed description of prior efforts to improve teacher content knowledge and student achievement in mathematics, lessons learned from these prior efforts, and how this project will build on those efforts.	2 points Describes prior efforts to improve teacher content knowledge and student achievement in mathematics and relates how this project will build on those efforts.	O points Does not adequately address prior efforts to improve teacher content knowledge and student achievement in mathematics and/or how this project will build on those efforts.
3b. Activities are linked to SMART goals and objectives of proposal	5 points Provides specific and clear activities that link to the SMART goals and objectives stated in the project and the data provided by the needs assessment.	4 points Evidence is provided that activities will lead to achievement of the SMART goals and objectives.	O points Little or no correlation is made between activities and achievement of the project's goals or objectives.
3c. Supporting research linking professional development strategies and increased student achievement in mathematics	6 points Clearly outlines how the professional development strategies are valid and reliable, based on a review of scientifically-based research, and how the project expects to increase student academic achievement in mathematics and strengthen the quality of mathematics instruction.	5 points Includes clearly documented scientifically-based research that the professional development strategies will increase student achievement in mathematics and strengthen the quality of mathematics instruction.	O points Proposal includes references but provides little evidence of research linking professional development strategies to increased student achievement in mathematics and/or strengthening of the quality of mathematics instruction.
3d. Description and timeline of professional development activities	4 points Includes a clear and detailed description (outlining the targeted concepts) and timeline of all the professional development activities (80 hours of Intel Mathematics and at least 24 additional hours which emphasize formative assessment for a total of 104 hours). Timeline includes the number, types, duration, intensity and responsible partner.	3 points Includes a general description (outlining the targeted concepts) and timeline of all the professional development activities (80 hours of Intel Mathematics and at least 24 additional hours which emphasize formative assessment for a total of 104 hours) Timeline includes the number, types, duration, intensity and responsible partner.	0 points Includes an incomplete description and/or timeline.

Criteria	Exceeds Standard	Meets Standard	Below Standard
3e. Planned activities are aligned with Arizona's College and Career Ready Standards for Mathematics.	5 points Includes a clear and detailed description of how the proposed professional development will be aligned to targeted domains/clusters within Arizona's College and Career Ready Standards for Mathematics.	4 points Describes professional development that is aligned to targeted domains/clusters within Arizona's College and Career Ready Standards for Mathematics.	O points Provides a limited description of how the professional development is aligned to targeted domains/clusters within Arizona's College and Career Ready Standards for Mathematics.
3f. Planned activities are aligned with InTASC Teaching Standards and the Learning Forward Standards	3 points Describes a detailed plan that clearly illustrates how the proposed professional development is aligned with the InTASC Teaching Standards and the Learning Forward Standards, and provides for workembedded application of new learning, continuous reflection, and ongoing support.	2 points Describes how the proposed professional development is aligned with the InTASC Teaching Standards and the Learning Forward Standards, and provides for workembedded application of new learning, continuous reflection, and ongoing support.	O points Does not provide sufficient evidence describing how the proposed professional development is aligned with the InTASC Teaching Standards and the Learning Forward Standards, or does not provide for work-embedded application of new learning, continuous reflection, and ongoing support.
3g. Planned activities contain rigor and challenging content and develop pedagogical content knowledge	6 points Includes evidence that the professional development is rigorous and challenging in academic content and explicitly addresses knowledge of content and students and knowledge of content and teaching. (Evidence of rigor and challenge should be in the sample lesson plan, description and timeline.)	5 points Includes evidence that the professional development is rigorous and challenging in academic content and also develops pedagogical content knowledge. (Evidence of rigor and challenge should be in the sample lesson plan, description and timeline.)	O points Provides limited evidence that the professional development is rigorous or challenging in academic content and/or focuses mainly on pedagogy.

Criteria	Exceeds Standard	Meets Standard	Below Standard
3h. Design elements	3 points	2 points	0 points
for planned activities	Proposed detailed, coherent plan that is	Proposed plan is aligned to a professional	Proposed plan is aligned to a professional
	aligned to a professional development	development design that includes these 4	development design that is missing one
	design that fully develops these 4 elements	elements (see Definitions Section):	or more of these 4 elements (see
	(see Definitions Section):	 Learn the Content 	Definitions Section) or the sample plan
	Learn the Content	Reinforce the Content Learning	does not provide evidence that all four
	 Reinforce the Content Learning 	Consolidate the Learning	elements are addressed:
	Consolidate the Learning	Implement the Content	Learn the Content
	Implement the Content	Provides within sample plan, evidence that	Reinforce the Content Learning
	Provides within sample plan, evidence that	all four elements are addressed. Description	 Consolidate the Learning
	all four elements are addressed. Description	of activities and timelines demonstrate the	Implement the Content
	of activities and timelines demonstrate the	implementation of the 4 elements and	Description of activities and timelines do
	implementation of the 4 elements and	indicate that all offerings (summer and	not demonstrate the implementation of
	indicate that all offerings (summer and	academic year) contain Learn the Content	the 4 elements and/or do not indicate that
	academic year) contain Learn the Content	and Reinforce the Content Learning.	all sessions contain Learn the Content
	and Reinforce the Content Learning.		and Reinforce the Content Learning.

4. Partnership Evaluation and Accountability Plan:*

Identify evaluation methods that the project will use and explain why those methods are appropriate for the identified needs the proposal addresses. A proposal must make a compelling case for the activities of the project and describe how the activities will help the MSP program build a rigorous, cumulative, reproducible, and usable body of findings.

*If one or more indicators in this section are scored "Below Standard," the grant proposal may be rejected.

Criteria	Exceeds Standard	Meets Standard	Below Standard
4a. Design of	5 points	4 points	0 points
evaluation plan is	Describes a detailed evaluation plan based	Describes a detailed evaluation plan based on a	Describes an evaluation plan that is not
based on quasi-	on experimental design, with defined	quasi-experimental design in which	based on experimental or quasi-
experimental or	treatment and control groups with adequate	intervention and carefully matched control	experimental design. Strategies for
experimental design	sample sizes (at least 36 teachers) in each	groups are constructed, with adequate sample	recruitment and retention of intervention
	group, in which intervention and	sizes (at least 36 teachers) in each group.	and control groups to maintain sample
	comparison groups are constructed by	Strategies for recruitment and retention of	size are not adequately addressed.
	randomly assigning some teachers to	intervention and comparison groups to maintain	Matching characteristics and methods for
	participate in the project activities and	sample size throughout the project is included.	reporting the equivalence of the groups
	others to not participate. Strategies for	Matching characteristics (including, at a	are not provided or do not meet the
	recruitment and retention of intervention	minimum, the length of time teaching, grade	minimum criteria. The evaluation plan
	and comparison groups to maintain sample	band, educational degree, and area of education	does not adequately incorporate reporting
	size throughout the project is included.	specialization) and methods for reporting the	requirements (quarterly reports to ADE,
	Matching characteristics (including, at a	equivalence of the groups is provided A short	Annual Performance Reports, and formal
	minimum, the length of time teaching, grade	statement of the research questions to be	evaluation reports).
	band, educational degree, and area of	answered is included. The evaluation plan	
	education specialization) and methods for	incorporates reporting requirements (quarterly	
	reporting the equivalence of the groups is	reports to ADE, Annual Performance Reports,	
	well developed and detailed. A short	and formal evaluation reports).	
	statement of the research questions to be		
	answered is included. The evaluation plan		
	incorporates reporting requirements		
	(quarterly reports to ADE, Annual		
	Performance Reports, and formal evaluation		
	reports).		

Criteria	Exceeds Standard	Meets Standard	Below Standard
4b. Measurable evidence for impact of project on student achievement and teacher effectiveness goals	5 points Required state measures (RTOP, LMT, Intel Content Measures and Intel Background Survey) and additional measures (e.g., NRT, CRT, or district measures) are used to show the impact of the professional development on student achievement and teacher effectiveness. The evaluation plan includes both pre- and post-RTOP observations and pre- and post-testing of teacher content knowledge for the intervention and comparison groups. Description of both summative and formative assessment procedures and the planned analysis of results are included. A description of the statistical tests that will be used in the analyses is well developed and detailed including within group and across group comparisons.	4 points Required state measures (RTOP, LMT, Intel Content Measures and Background Survey) are used to show the impact of the professional development on teacher effectiveness. The evaluation plan includes both pre- and post- RTOP observations and pre- and post-testing of teacher content knowledge for the intervention and comparison groups. A description of the statistical tests that will be used in the analyses is included.	O points Required state measures (RTOP, LMT, Intel Content Measures and Background Survey) are not included and/or summative or formative assessment procedures are not described and/or an analysis of results is inadequate. A description of the statistical tests that will be used in the analyses is not included or lacks necessary details.
4c. Contribution to research	3 points Evaluation plan clearly articulates how the activities will help the MSP Program build a rigorous, cumulative, reproducible, and usable body of findings. Appropriate qualifications of the internal and external organization or individuals responsible for executing the plan are included.	1 points Evaluation plan describes how the activities will help the MSP Program build a rigorous, cumulative, reproducible, and usable body of findings. The internal and external organization or individuals responsible for executing the plan are referenced.	O points Evaluation plan inadequately articulates how the activities will help the MSP Program build a rigorous, cumulative, reproducible, or usable body of findings and/or the internal and external organization or individuals responsible for executing the plan are not referenced.

<u>5. Commitment and Capacity of Partnership:</u>
The project description must clearly demonstrate the submitting partnership has the capability of managing the project, organizing the work and meeting deadlines.

Criteria	Exceeds Standard	Meets Standard	Below Standard
5a. Partnership's role in planning and development of proposal and project development, delivery, and evaluation	4 points Evidence is provided that clearly describes each partner's role in the planning and development of the proposal and each partner's role in the ongoing planning, delivery, and evaluation of the proposed project.	3 points Evidence is provided that outlines each partner's role in the planning and development of the proposal and each partner's role in the ongoing planning, delivery, and evaluation of the proposed project.	O points Little or no evidence is provided to indicate the role of one or more partners.
5b. Duties and responsibilities related to the SMART goals and objectives of the project	5 points The proposal includes a detailed description of the duties and responsibilities of all project staff members and how they are aligned to the SMART goals and objectives of the proposal.	4 points The proposal includes an outline of the duties and responsibilities of all project staff members and how they are aligned to the goals and objectives of the proposal.	0 points Inadequate information on the duties and responsibilities of all project staff members is provided.
5c. Capacity of partnership	4 points Evidence of the number and quality of staff to carry out the proposed activities and vitas for key partners' staff and Teacher Assurance Forms are provided. Project staff includes a mathematics faculty/mathematics educator team and the number of staff delivering the professional development is proportionate to the number of participants. The mathematics faculty and mathematics educator meet the requirements for the Intel Math program. A project director or codirector from the LEA is included. A description of the specific institutional resources to support project activities is included.	3 points Evidence of the number and quality of staff to carry out the proposed activities and vitas for key partners' staff and Teacher Assurance Forms are provided. Project staff includes a mathematics faculty/mathematics educator team and the number of staff delivering the professional development is proportionate to the number of participants. The mathematics faculty and mathematics educator meet the requirements for the Intel Math program. A project director or co-director from the LEA is included. A description of the institutional resources to support project activities is not clearly detailed.	O points Explanation of capacity is inadequate and may be missing one or more of the criteria.

Criteria	Exceeds Standard	Meets Standard	Below Standard
5d. Partnership governance	3 points The partnership's governing structure specific to decision-making, communication, and fiscal responsibilities is well-defined and linked to the SMART goals, objectives, and project activities. The proposal includes a description and evidence of how the private schools were informed.	2 points The partnership's governing structure specific to decision-making, communication, and fiscal responsibilities is well-defined. The proposal includes a description and evidence of how the private schools were informed.	O points Inadequate information is provided related to partnership governance or how the private schools were informed.
5e. Sustainability	3 points There is a clear and specific plan for project continuation. The plan addresses the obstacles to future funding, how assessment data will be used, how the project will be promoted within the school and school districts, and how leadership capacity at the principal and teacher levels will be fostered.	2 points Description of how the project will be sustained and continued when state funding is no longer available is outlined in the plan. The plan addresses all of the following within the outline: how assessment data will be used, how the project will be promoted within the school and school districts and how leadership capacity at the principal and teacher levels will be fostered.	O points There is an inadequate plan for how the partnership will continue when the state funding is no longer available.

6. Partnership Budget and Cost Effectiveness:*

The budget justification should clearly be tied to the scope and requirements of the project. The budget narrative should describe the basis for determining the amounts shown on the project budget page. All proposals should include provisions for evaluation of the activities.

Criteria	Meets Standard	Below Standard
6a. Budget details	2 points	0 points
(In Narrative)	The proposal provides a general summary of the budget	The proposal provides insufficient budget information
	outlining specific costs of each category over the	regarding specific costs of each category over the duration
	duration of the project; the proposal includes a budget	of the project; the proposal provides insufficient
	summary for each partner; and the budget supports the	information for each partner; or the budget does not support
	scope and requirements of the project.	the scope and requirements of the project.
6b. Cost effectiveness	4 points	0 points
(In Appendix, Narrative)	The amount included in each budget category is	The amount included in each budget category is not
	detailed and commensurate with the services or goods	commensurate with the services or goods proposed, or the
	proposed, and the overall cost of the project is	overall cost of the project is not appropriate for the
	appropriate for the professional development provided	professional development provided and the number of
	and the number of teachers served.	teachers served.
6c. Provisions for training, evaluation	2 points	0 points
and required meetings	The budget includes provisions for an evaluation and	The budget does not include adequate provisions for an
(In Appendix)	funds for key staff, specifically the project director(s),	evaluation and/or funds for key staff, specifically the
	to participate in 2 state technical assistance meetings	project director(s), to participate in 2 state technical
	and 1 regional MSP meeting. External evaluation staff	assistance meetings or 1 regional MSP meeting, the
	must attend the technical assistance meeting/webinar	external evaluation staff to attend the spring technical
	and USDOE regional meetings as needed. Funds are	assistance meeting, or attendance at the Training-of-
	allocated for attendance at the Training-of-Trainers	Trainers sessions and Math RTOP training. Funds are not
	sessions and Math RTOP training as needed.	allocated for services and support provided by the Intel
	Funds are allocated for services and support provided	Math National Training Agency.
	by the Intel Math National Training Agency.	

*Up to 2 incentive points may be awarded if one or more partners provide additional funding for the project beyond that requested in the MSP proposal